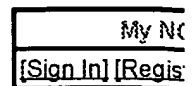
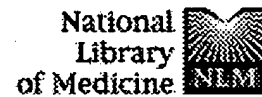


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L1	6	nuclear adj1 addition	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:19
L2	1480	nuclear adj1 transfer	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:19
L3	31	(nuclear adj1 transfer) and oocyte and piezo\$	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:28
L4	24	(nuclear adj1 transfer) and aneuploid	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:27
L5	46	oocyte and aneuploid	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:27
L6	18	(nuclear adj1 transfer) and oocyte and aneuploid	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:35
L7	0	enucleate with chemical	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:35
L8	1	enucleate SAME chemical	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:37
L9	131	stice.inv.	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:37
L10	58	stice.inv. and oocyte	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:39
L11	56	stice.inv. and oocyte and chemical	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:39
L12	0	stice.inv. and oocyte and chemical and pieso	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:39

L13	0	stice.inv. and oocyte and chemical and piezo	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:39
L14	0	stice.inv. and oocyte and chemical and piezo\$	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:39
L15	31	stice.inv. and oocyte and chemical and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:44
L16	0	cambell.inv. and oocyte and chemical and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:44
L17	0	cambel.inv. and oocyte and chemical and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:44
L18	0	campel.inv. and oocyte and chemical and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:44
L19	0	campell.inv. and oocyte and chemical and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:44
L20	0	campell.inv. and oocyte and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:44
L21	0	cambell.inv. and oocyte and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:44
L22	0	cambel.inv. and oocyte and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:45
L23	30	campbell.inv. and oocyte and (inject or injection or fusion)	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:45
L24	30	campbell.inv. and oocyte and (inject or injection or fusion) and chemical	US-PGPUB; USPAT; EPO; DERWENT	OR	OFF	2005/06/24 12:45



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1: Reprod Fertil Dev. 1998;10(7-8):633-7.

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Novel method for demonstrating nuclear contribution in mouse nuclear transfer.

Munsie M, Peura T, Michalska A, Trounson A, Mountford P.

Centre for Early Human Development, Institute of Reproduction and Development, Monash University, Vic., Australia.

Confirmation of nuclear contribution is essential to all nuclear transfer experiments. Contribution is easily demonstrated in nuclear transfer progeny but more difficult to confirm in nuclear transfer embryos. The use of donor nuclei isolated from lacZ transgenic mice offers a clear and simple method to demonstrate contribution in nuclear transfer embryos and offspring. The unique line of transgenic mice (Zin40) used in this study displays nuclear localised lacZ expression in all cells, including embryonic blastomeres, and demonstrates distinctive blue nuclei when treated with X-gal substrate. This characteristic staining pattern provided an ideal marker for demonstrating nuclear contribution. Nuclear transfer embryos were generated following serial nuclear transfer of metaphase-arrested nuclei from transgenic and non-transgenic 4-cell embryos. Totipotency of nuclear transfer blastocysts was confirmed by the generation of live born offspring. Transgenic blastocysts and all tissue samples from fetuses and pups generated by nuclear transfer displayed distinctive blue nuclei when stained with X-gal. This staining pattern was characteristic of the transgenic mice from which the donor nuclei were isolated and clearly confirmed nuclear origin. The use of this marker will also allow the opportunity to investigate the developmental potential of nuclear transfer embryos by examining the contribution of nuclear transfer embryonic cells in chimaeric embryos.

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